



PBM-4K-H Series - Product Highlights:

The PBM-4K-H series is our latest portfolio of 4K monitors that are capable to decode and preview a wide range of signal standards in 4K, UHD, FHD and HD standards. The PBM-4K-H was introduced in alignment with increased industry demand for an affordable yet comprehensive 4K monitor series. The PBM-4K-H series is available in multiple sizes from 9 up to 55 inches, the Plura PBM-4K-H series bring the exceptional built-in feature set Plura monitors are known for, maintaining quality and performance to give production facilities an edge in Ultra HD monitoring.

The Plura PBM-4K-H is a comprehensive tool for all UHD/4K, 3G broadcast systems and all other wide-range industries. The PBM-4K-H Series was designed and engineered for simple operation and future flexibility. The platform is built around FHD panel display and powerful FPGA chipset. The core of this platform is based on fully programmable architecture. Future proof expansion (i.e. additional features and functionalities can and will be implemented in the field via the Ethernet interface). The PBM-4K-H Series offers Ember+ compliant control system capabilities, i.e. can be controlled by Lawo-VSM, BFE-Core or any other Ember+ compliant control system.

- 2 x HDMI 1.4 port
- 2 x 12G, 6G, 3G, 1.5G port
- 2 x 3G, 1.5G port
- 2 x SFP Slot supporting Multiple Fiber & Coaxial I/O Standards
- Supports up to 4096 x 2160 resolutions
- HDR (High Dynamic Range) capabilities
- PQ (SMPTE ST 2084) & HLG (Hybrid Log Gamma)
- Ember+ Compliant, Ethernet & RS 232 Remote Control
- RGB 12 Bit Digital Signal Processing
- 178° Viewing Angle Display • Gamma Selectable (0.8 - 3.0)
- Color Temperature - User, VAR, Adjustable (9300K to 3200K)
- (ICAC) - Plura Intelligent Connection for Alignment & Calibration
- 3D LUT (ITU-R, BT.2020, D-Cinema, BT.709)
- Camera S-Log LUT gamma curve optimization support
- Display Advanced Waveform & Vector Scope simultaneously with line select
- Various and User defined Markers Display Safe Area in HD and SD
- Programmable 3 User Front Pushbutton Controls & GPI
- Closed Caption (608/708) - North American Market
- Teletext 801 & Subtitle OP-47- Australia & N.Z. Market
- Cutting edge De-interlacing and Scaling Technology
- Fast Response Time for high motion video
- Internal Monitor Display (IMD)
- Pixel to Pixel Mode, Tally, DC Operation
- False Color, Peaking Filter and Focus Assist
- Video Range test with adjustable Y & C values
- Display LTC & DVITC time code with line select
- Embedded Audio Input and Digital Audio Decoding
- Internal Pattern Generator and Wall Control System

EMBER+ SUPPORT



SDR HDR



The PBM-4K-H series offers HDR Display capabilities supporting PQ (ST-2084) & HLG standards.



PBM-4K-H (HDR) PROMINENT FEATURES

Plura PBM-4K-H series brings the exceptional built in feature set Plura monitors are known for, maintaining quality and performance to give broadcast & production facilities an edge in Ultra HD monitoring.

Markers



Various and User defined Markers Display, Safe area in HD and SD.

Video Range



This function displays Luma (Y) & Chroma (C) out of range levels outside the user defined range.

Waveform / Vector



Display Advanced Waveform & Vector Scope simultaneously with line select

Camera S-Log Gamma Curve optimization support

S-Log is a gamma curve with a wide dynamic range optimized under the assumption that grading will be performed in the post-production process. PBM-4K-H series supports multiple camera S-Log LUT



- SLog3 To LC-709
- SLog3 To LC-709 TypeA
- SLog3 To Slog2-709
- SLog3 To Cine+709
- SLog2 To LC-709
- SLog To LC-709 TypeA
- SLog2 To Slog2-709
- SLog2 To Cine+709
- User defined Log LUT

Focus Assist



A focus-assist feature is important for focusing cameras.

False color



False color function refers to a group of color rendering methods used to display images in color which were recorded in the visible or non-visible parts of the electro-magnetic spectrum. A false-color image is an image that illustrates an object in colors that differ from those a photograph (a true color image) would show.

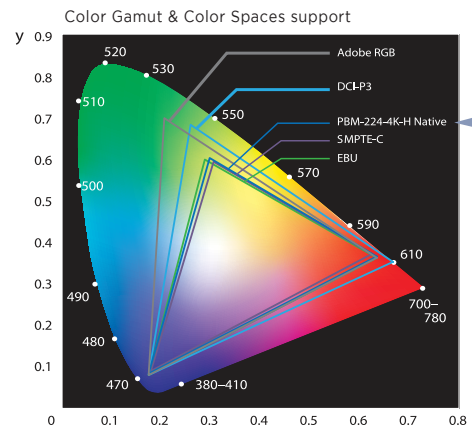
Gamma Adjustment



PBM-4K H series provides different Gamma adjustment settings, The monitor is capable to select Gamma settings between (0.8 - 3.0)

Wide Color Gamut & Color Spaces support

PBM-4K-H is built with intelligent connections for calibration alignment, adjustable colorimetry and gamma correction capabilities. The PBM-4K-H series can reproduce 3D LUT (ITU-R, BT.2020, D-Cinema, BT.709) color spaces.



PBM-4K-H Series Specifications

The PBM-4K-H Series comes in multiple sizes: 9", 10", 17", 21", 24", 32", 47" & 55", all sizes offer the extensive and well known Plura prominent features. The Plura PBM-4K-H Series will support SMPTE 2082 and other earlier industry standards, 12G/3G/HD-SDI inputs with active loop, 1 x SFP slot to support multiple Fiber & Coaxial I/O Standards, 1x HDMI 1.4, in addition to all other legacy I/O. PBM-4K-H Series will suit many studio and/or mobile production workflows in an affordable capacity for a wide range size of 4K monitor solutions. This series adopts the exceptionally slim form factor that many users enjoy and demand.

| | FUNCTION | PBM-209-4K-H-DUAL |
|--|-------------------------------|---|
| INPUT | SDI Input | 2EA, Serial Digital, 12G/3G/HD-SDI BNC Jack/ 2EA, Serial Digital, 3G/HD-SDI BNC Jack |
| | SFP Port | 2EA, SFP Optical and/or Electrical |
| | HDMI | 2EA, HDMI, 19pin Female |
| OUTPUT | SDI Output | 2EA, Serial Digital, 12G/3G/HD-SDI BNC Jack/2EA, Serial Digital, 3G/HD-SDI BNC Jack |
| DIGITAL MEDIA FORMAT | SMPTE-ST 2082M | 3840x2160 (23.98/24/25/29.97/30/50/59.94/60p) |
| | SMPTE-428.1M | 2048x1080P (24/25) |
| | SMPTE-425M AB (3G) | 1920x1080i (60/59.94/50/30/29.97/25/24/23.98/30st/29.97sF/25sF/24sF/23.98sF) / 1080P (60/59.98/50) |
| | SMPTE-260M | 1920x1035i (60/59.94) |
| | SMPTE-274M/292M | 1920x1080i (60/59.94/50) |
| | | 1920x1080P (30/29.97/25/24/24sF/33.98/23.98sF) |
| | SMPTE- 296M | 1280x720P (60/59.94/50) |
| | SFP | 3G/1.5G |
| | UHD HDMI 1.4 | 480P/720P/1080P/2160P-30HZ |
| | AUDIO INPUT | SDI Audio Input |
| HDMI Audio Input | | Embedded Audio |
| AUDIO OUTPUT | Speaker Output | Internal Speaker (Stereo) 3W + 3W |
| | Ear-phone Output | 2EA, L/R Stereo, 3.5mm pin jack |
| I/O CONTROL PORT | GPI | RJ-45 8 Pin (Programmable for General Purpose Input) |
| | ETHERNET | RJ-45 8 pin Ethernet port, 100Mbps, supported for F/W update & wall control applications & RJ-45 8 pin Ethernet port, 100Mbps, supported for Ember+ control |
| | USB | Firmware Upgrade |
| | RS232 | D-sub 9 Pin Female/Serial Commands Control |
| LCD | Size | 2 x 9" Diagonal |
| | Aspect Ratio | 16 : 9 |
| | Resolution | 1280 X 720 |
| | Display Color | 16.7 MILLION Colors |
| | Brightness | 1000cd/m2 |
| | Contrast Ratio | 1000:1 (Typical) |
| | Response Time | Tr=7ms/Tf=7ms |
| | Viewing Angle (deg) | Horizontal: 178 (Typ.) Vertical 178 (Typ.) |
| POWER REQUIREMENT | DC 12V/A | |
| POWER CONSUMPTION | 0.5A-1.0A (12W) | |
| OPERATING TEMPERATURE | 0°C - 40°C (32° - 104°F) | |
| OPERATING HUMIDITY | 10%RH - 85%RH (Non Condensed) | |
| STORAGE TEMPERATURE | -10°C - 80°C (14°-176°F) | |
| STORAGE HUMIDITY | 10%RH - 85%RH (Non Condensed) | |
| WEIGHT (w/o STAND & PACKAGING) | 4 Kg - 8.8 lbs | |
| DIMENSION (WxHxD) (W/O STAND & PACKAGING) | 478.8x175x87.6mm | |
| PACKAGING DIMENSION (WxHxD) | 609.6x279.4x177.8mm | |
| ACCESSORY | 24 x 11 x 7 inch | |
| | Rackmount & Power Cord | |

Please note that the technical details shown here are provisional specifications (as of Dec 2031) The information is subject to change without notice.

Connectivity

